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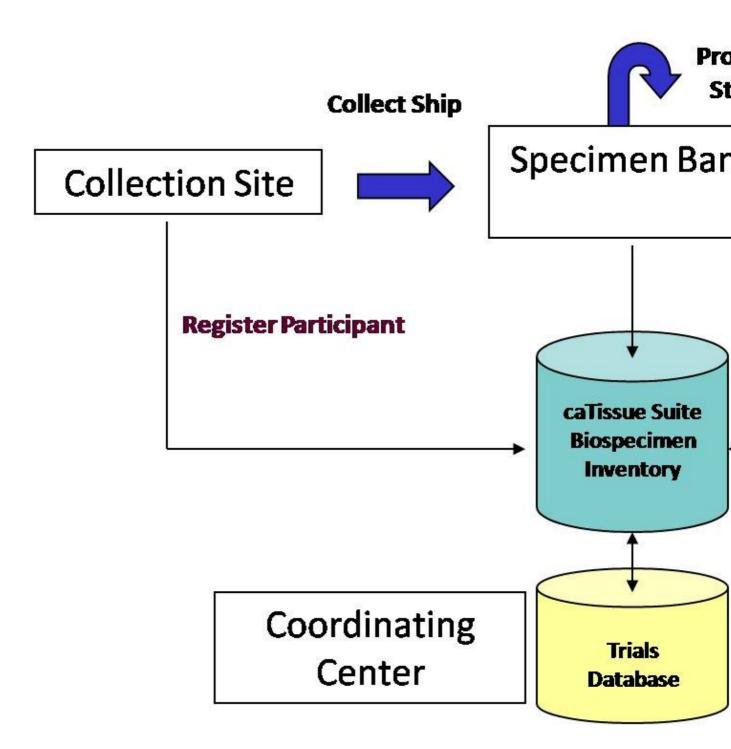
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Using caTissue Suite: Who and Why?

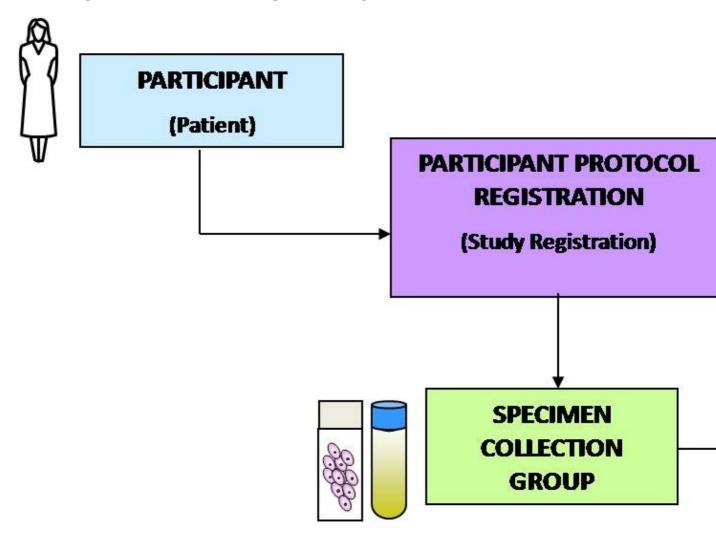
- Target Users:
 - Biospecimen resource staff who want to track and store data about their biospecimen collection,
 - Scientists who want to search for biospecimens and associated data for their translational resear
- Core Functions / Modules
 - Administration: Create and edit users, protocols, and storage systems associated with a biospeci
 - Biospecimen: Create and edit data concerning participants and their corresponding biospecimen
 - Query: Identify biospecimens and their data based upon one or more selection criteria.

How caTissue Suite Benefits Your Research

• Data capture and biospecimen annotation by multiple users and multiple sites involved in biospecimen management and utilization..

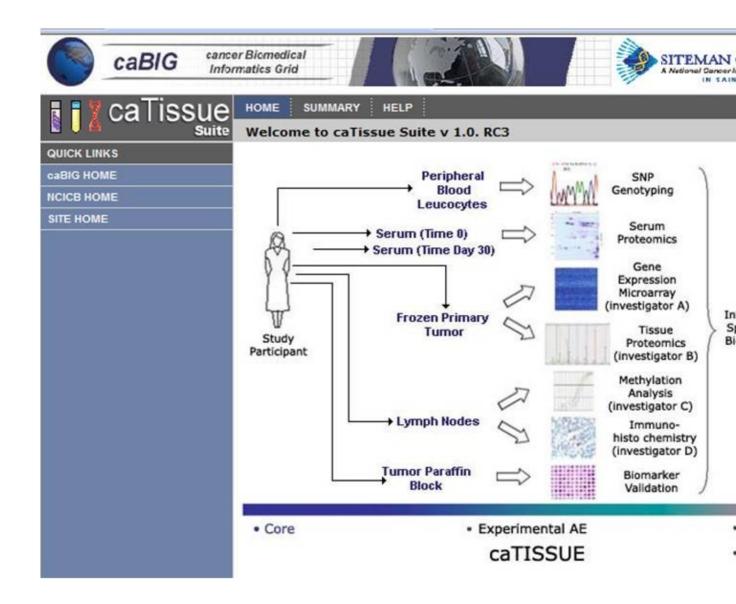


Getting Started: Data Captured by caTissue Suite



caTissue Suite Login? Role-Based Users

http://catissuecore.wustl.edu



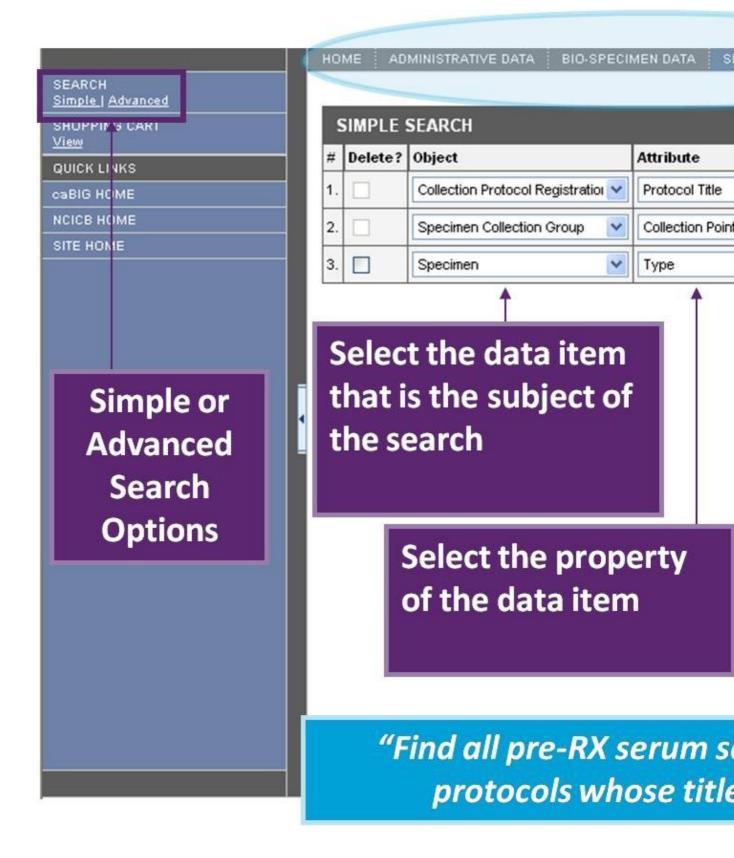
- Scientist: Searches for biospecimens
- **Technician:** Manipulates biospecimens in the bank
- **Supervisor:** Accessions new participants / biospecimens

• Administrator: Defines protocols / storage containers

caTissue Suite Workflow

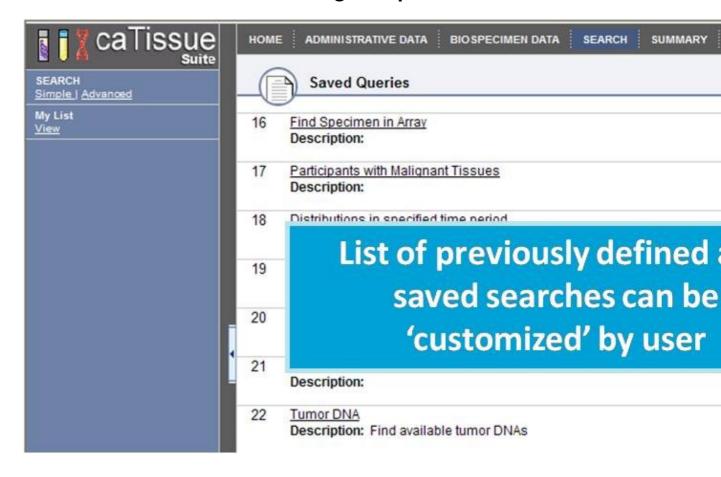
Simple Search

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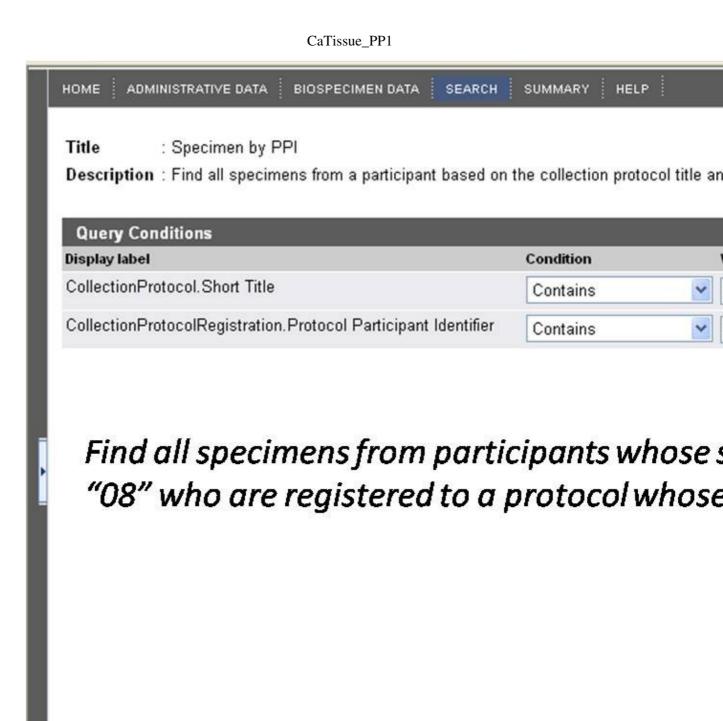


Simple Search 8

caTissue Suite Workflow? Using Complex / Saved Searches



caTissue Suite Workflow? Running a Saved Search



CONTACT US

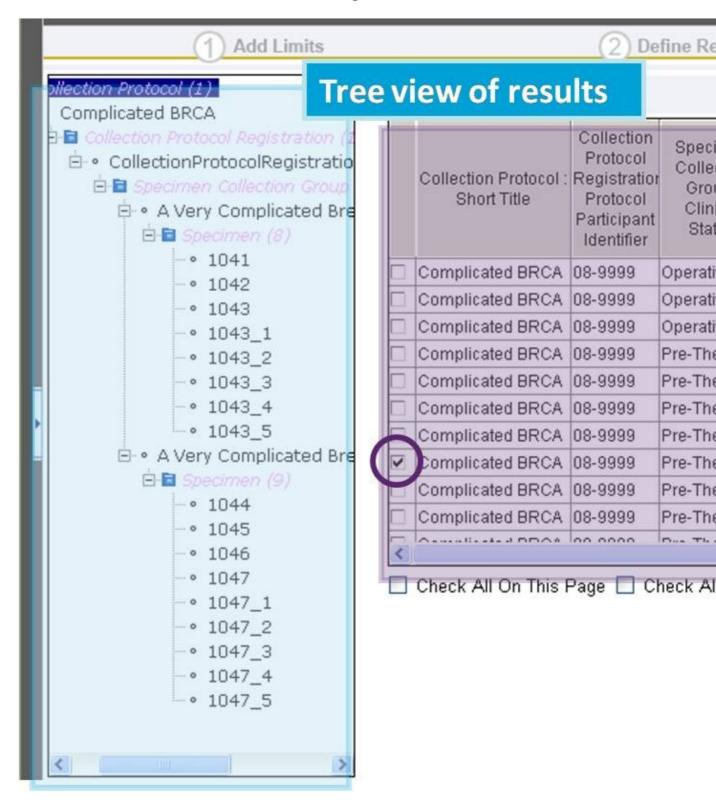
PRIVACY NOTICE

DISCLAIMER

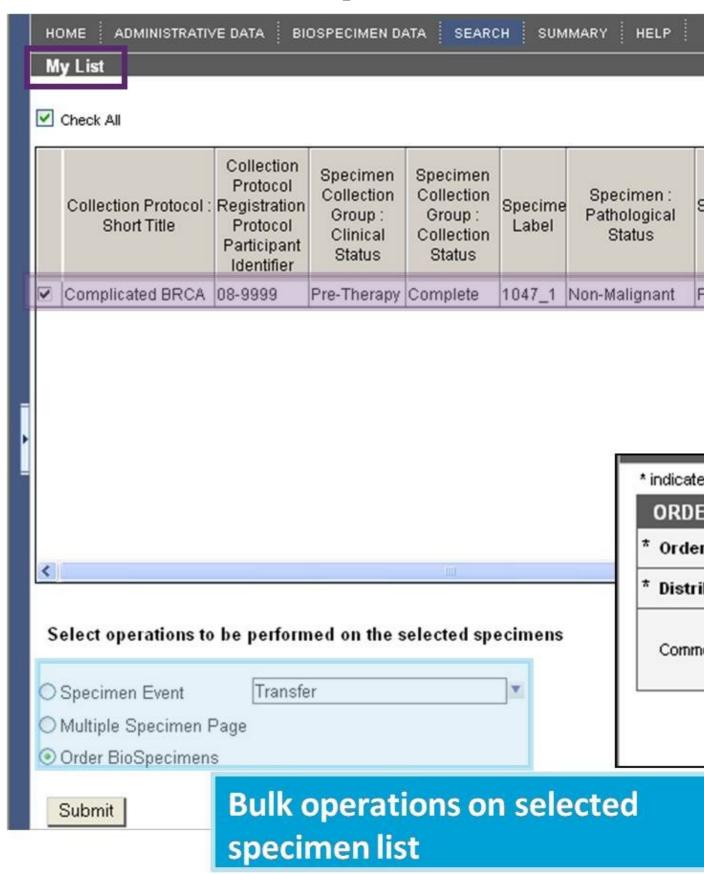
ACCESSIBILITY

REPORT PROBL

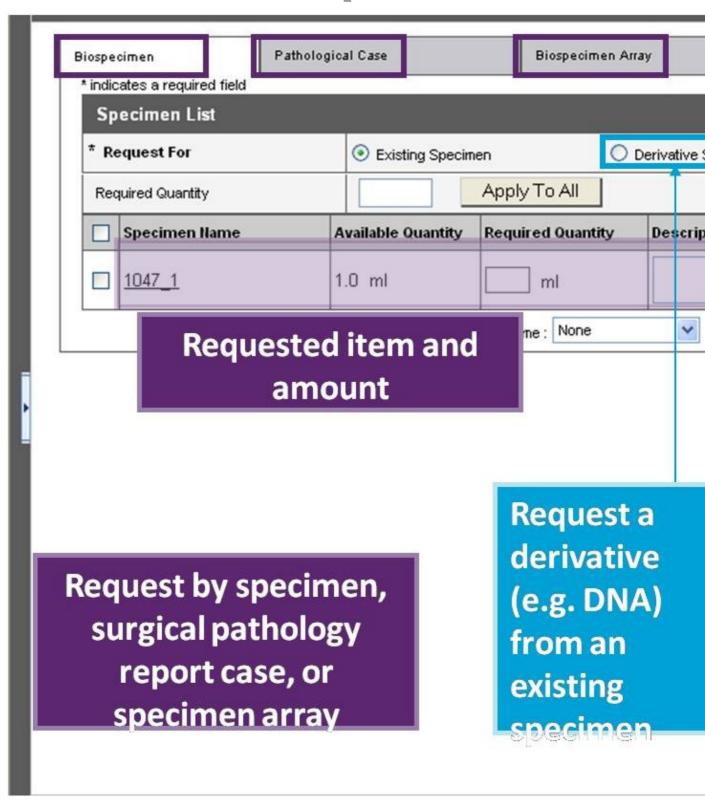
caTissue Suite Workflow? Viewing Search Results



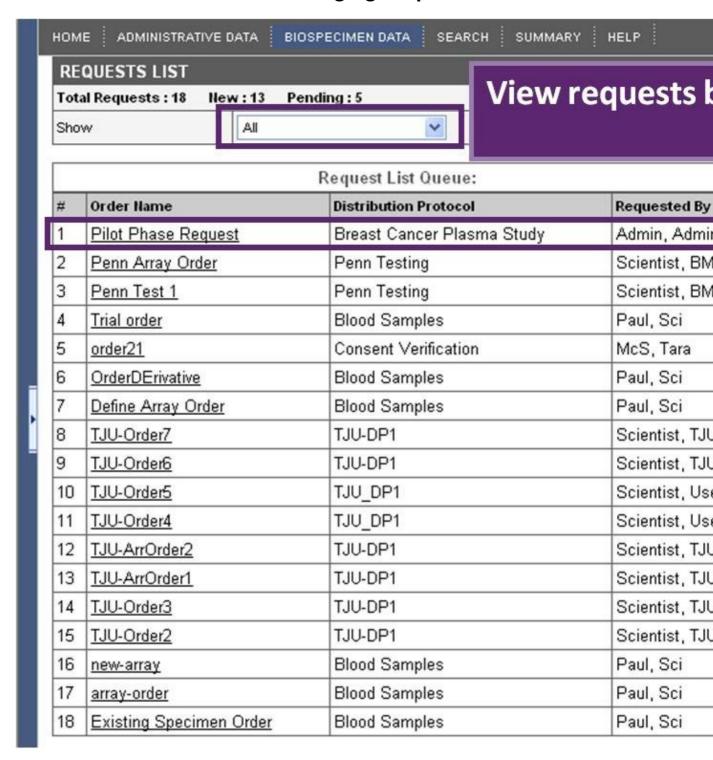
caTissue Suite Workflow? Requesting Biospecimens



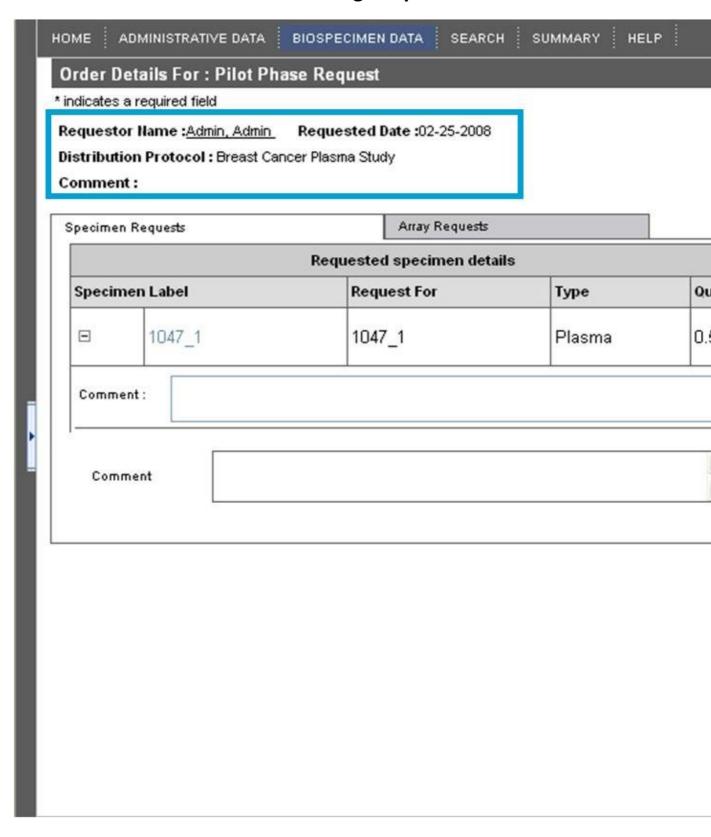
caTissue Suite Workflow? Requesting Biospecimens



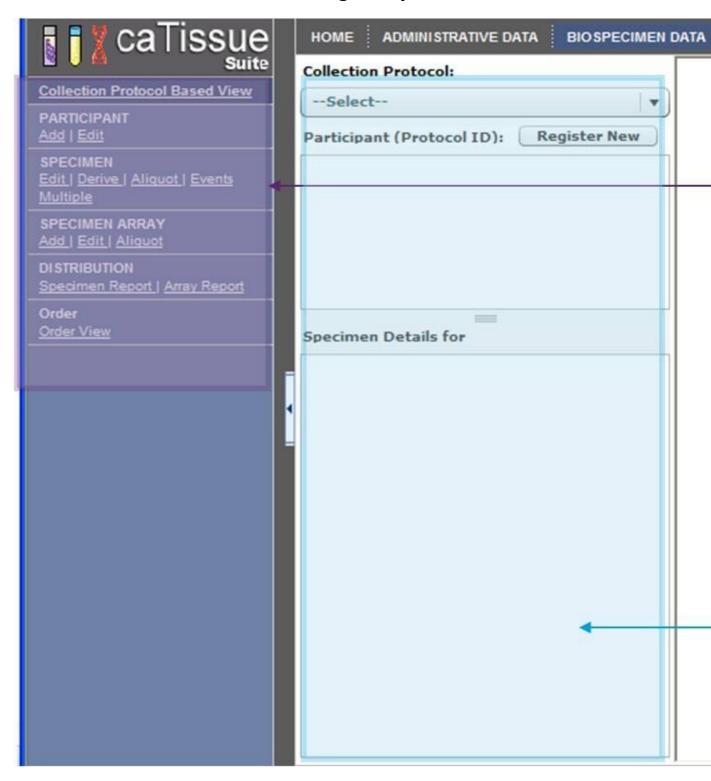
caTissue Suite Workflow? Managing Requests



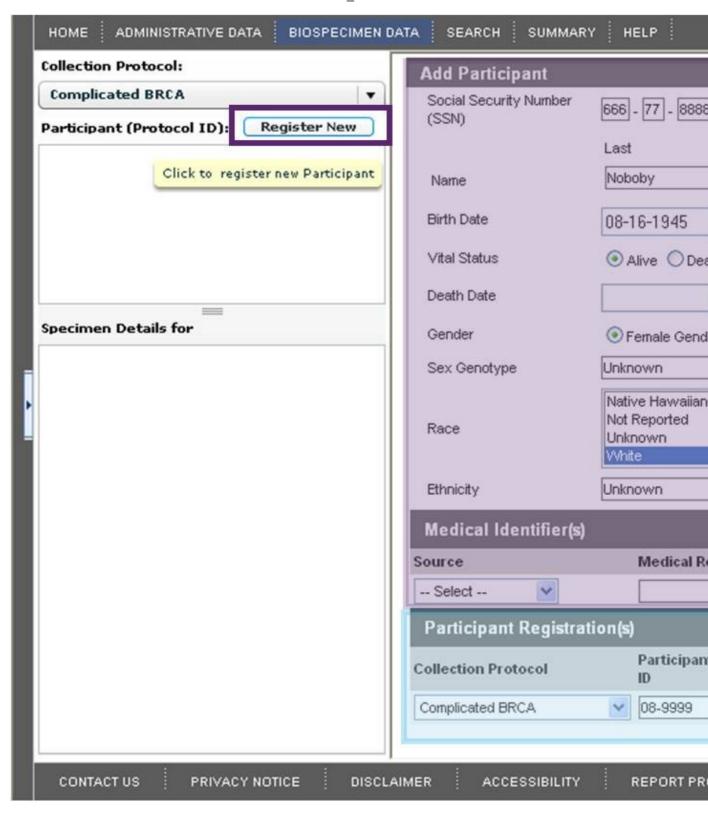
caTissue Suite Workflow? Tracking Requests



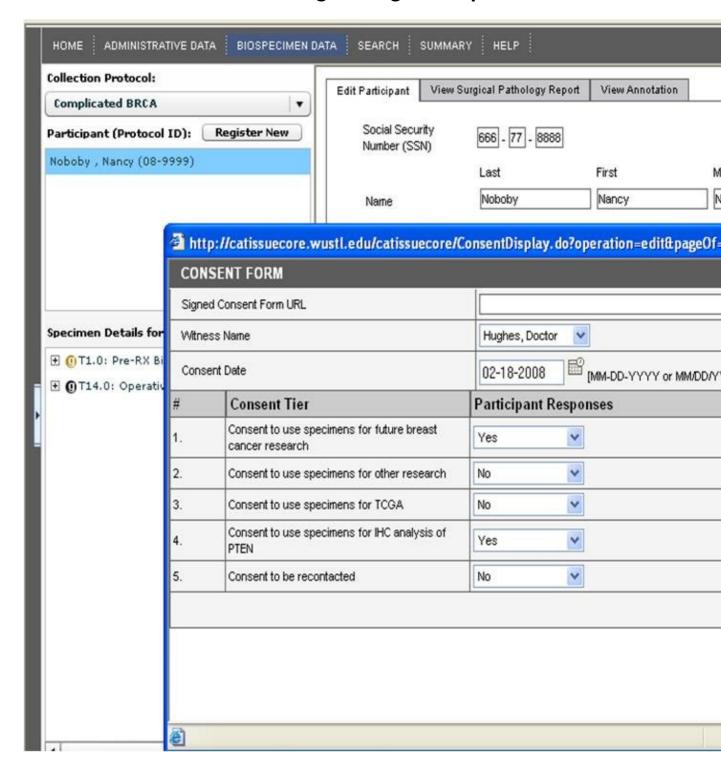
caTissue Suite Workflow? Adding Biospecimen Data



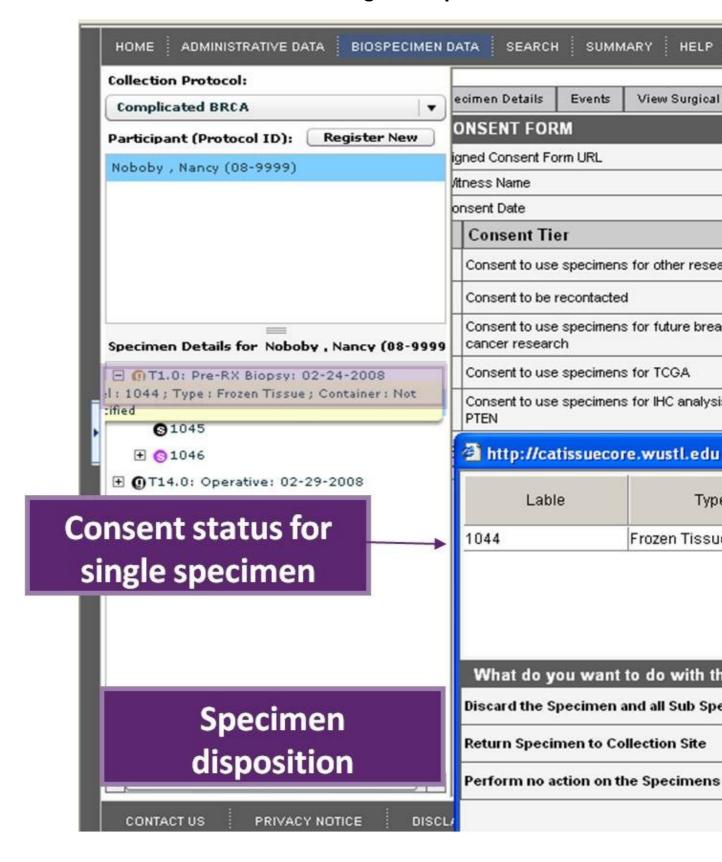
caTissue Suite Workflow? Registering a Participant



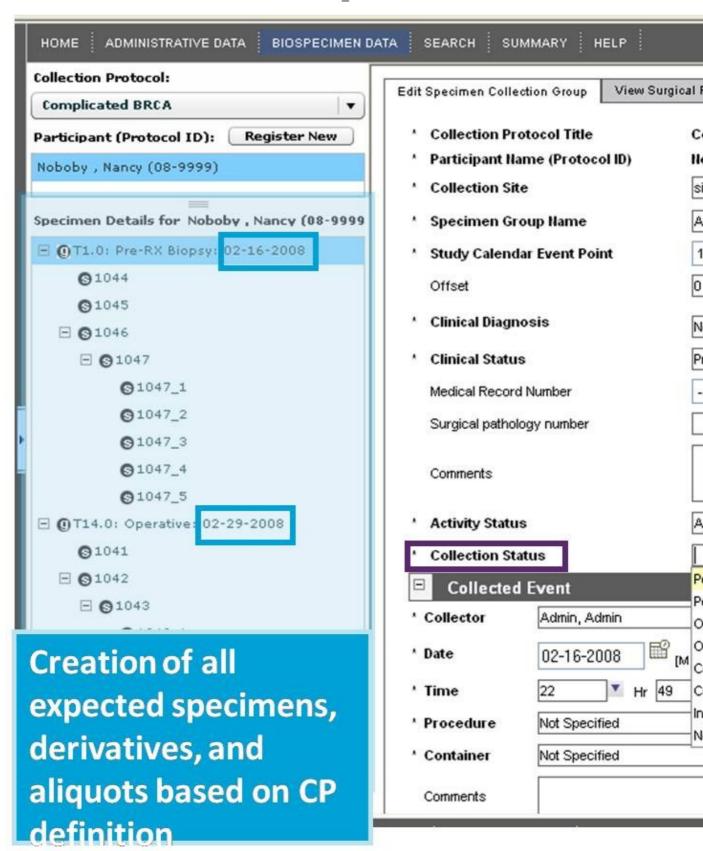
caTissue Suite Workflow? Registering Participant Consent



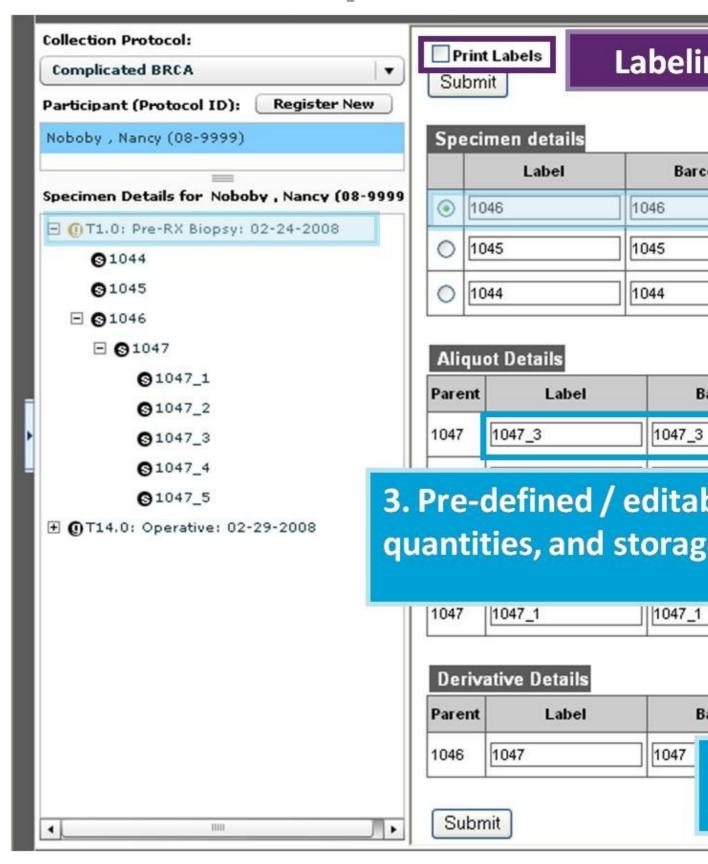
caTissue Suite Workflow? Tracking Participant Consent



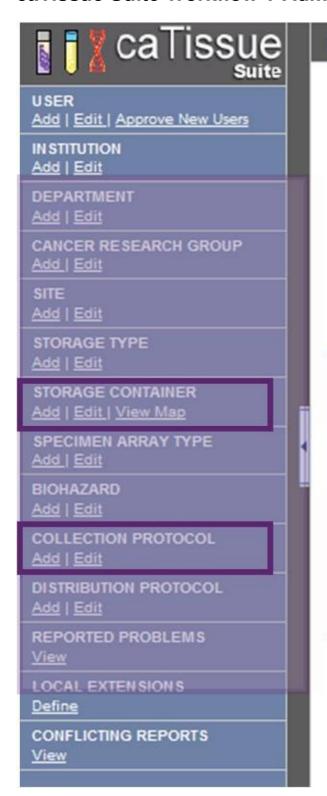
caTissue Suite Workflow? Adding Pre-defined Specimens



caTissue Suite Workflow? Adding Pre-defined Specimens



caTissue Suite Workflow? Administration



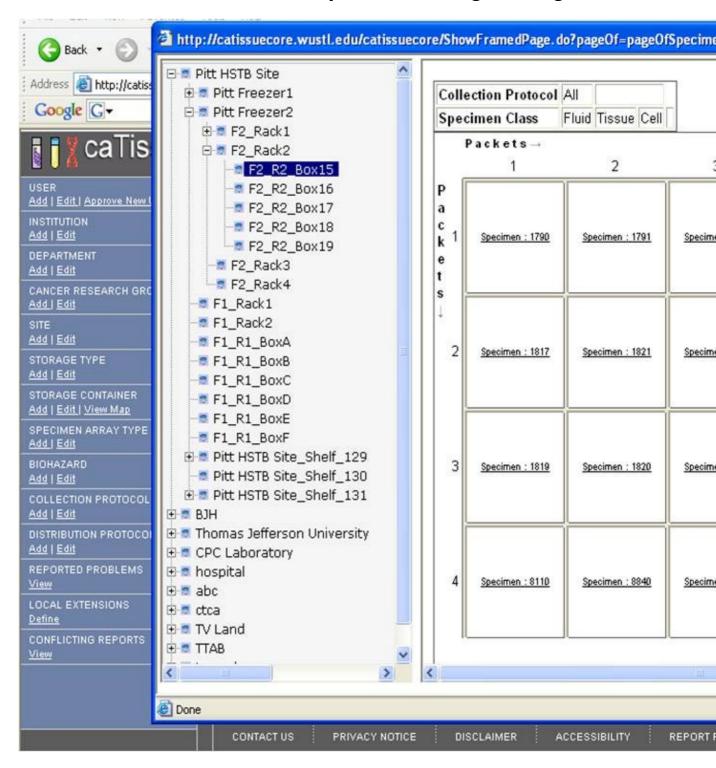
HOME ADMINISTRATIVE DATA BIOSPECIMEN

This is user Workspace

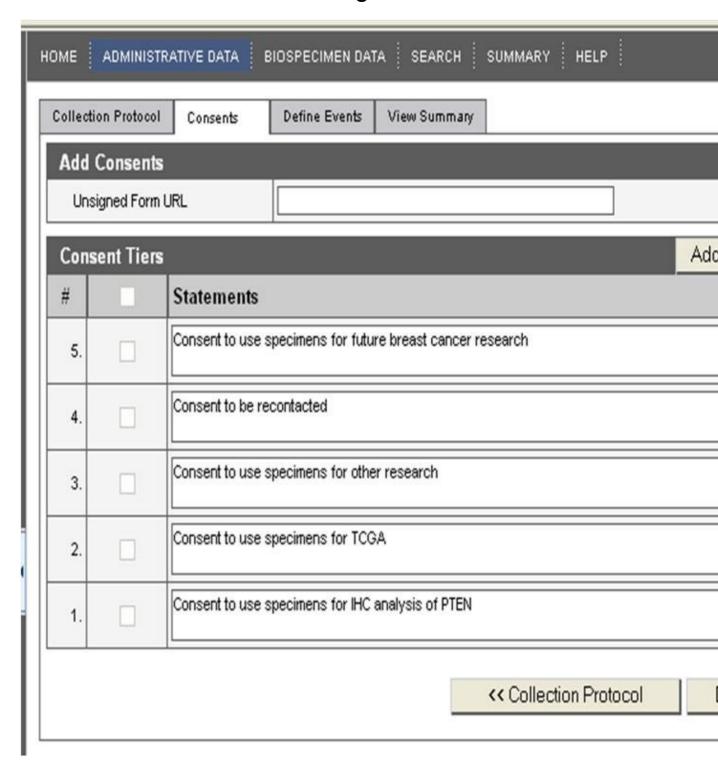
Add / Edit Administrative

- Users
- Sites
- Storage Containers (Fre
- Collection Protocols

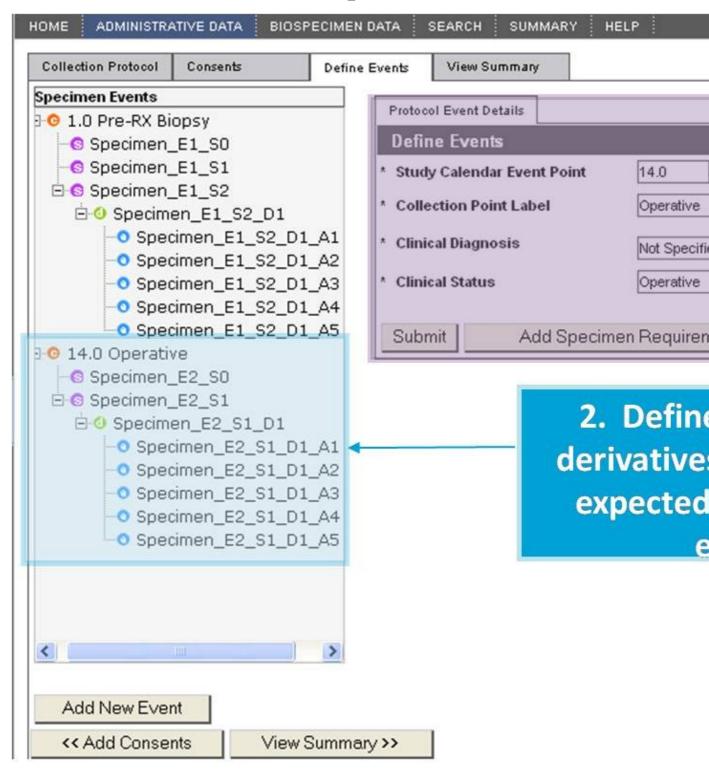
caTissue Suite Workflow? Biospecimen Storage Management



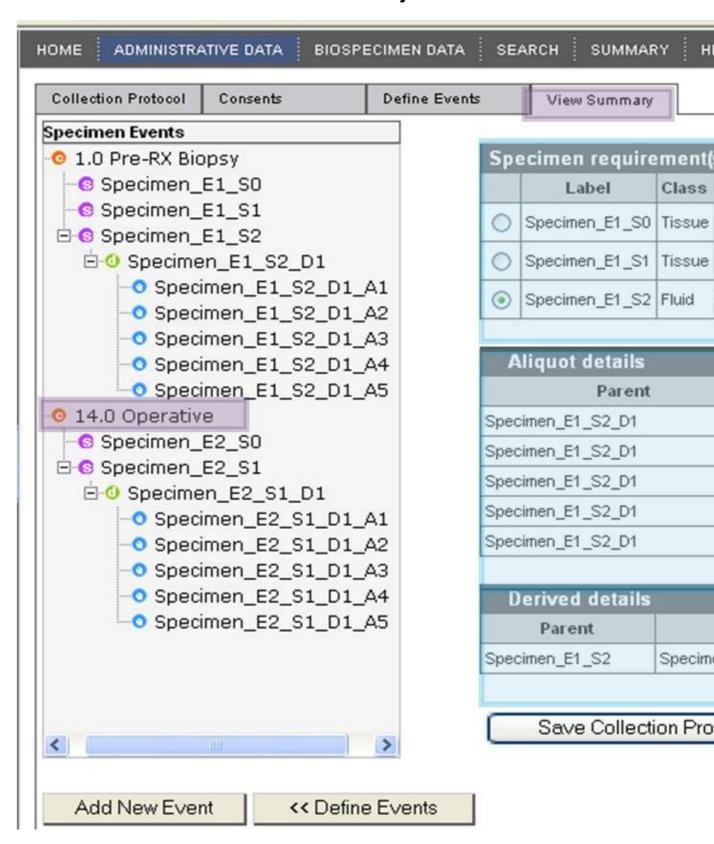
caTissue Suite Workflow? Defining Consents for a CP



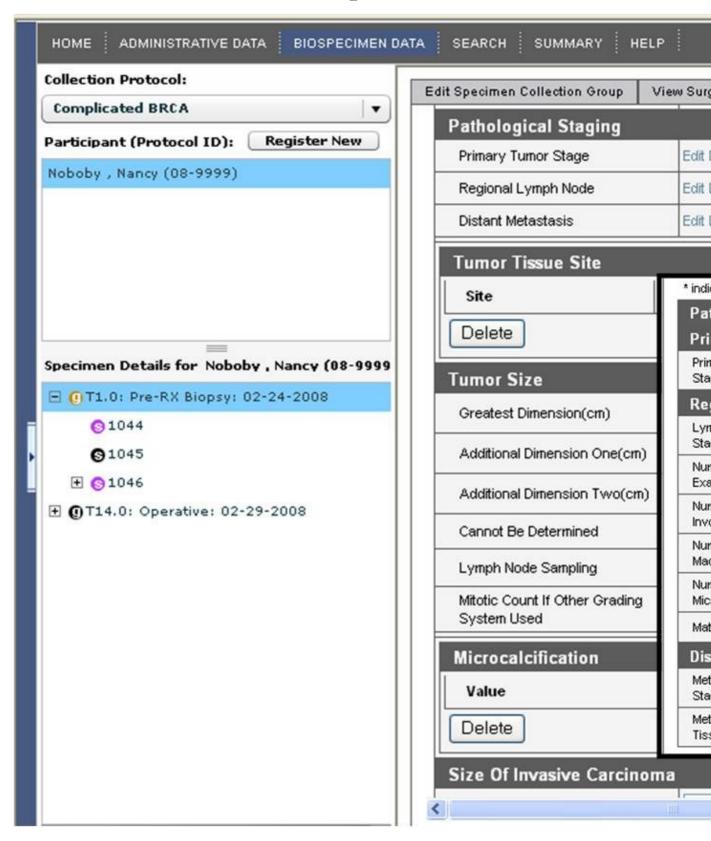
caTissue Suite Workflow? Defining Events for a CP



caTissue Suite Workflow? CP Summary

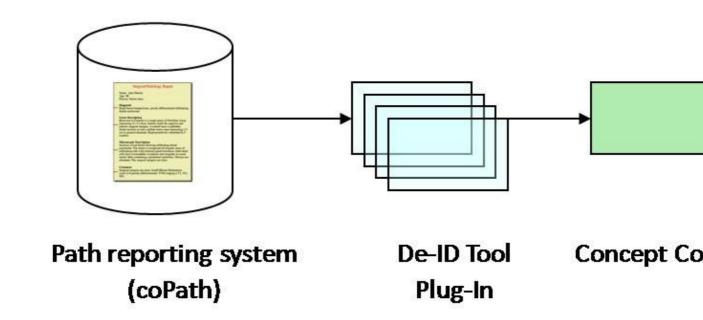


caTissue Suite Workflow? Adding Pathology Annotation

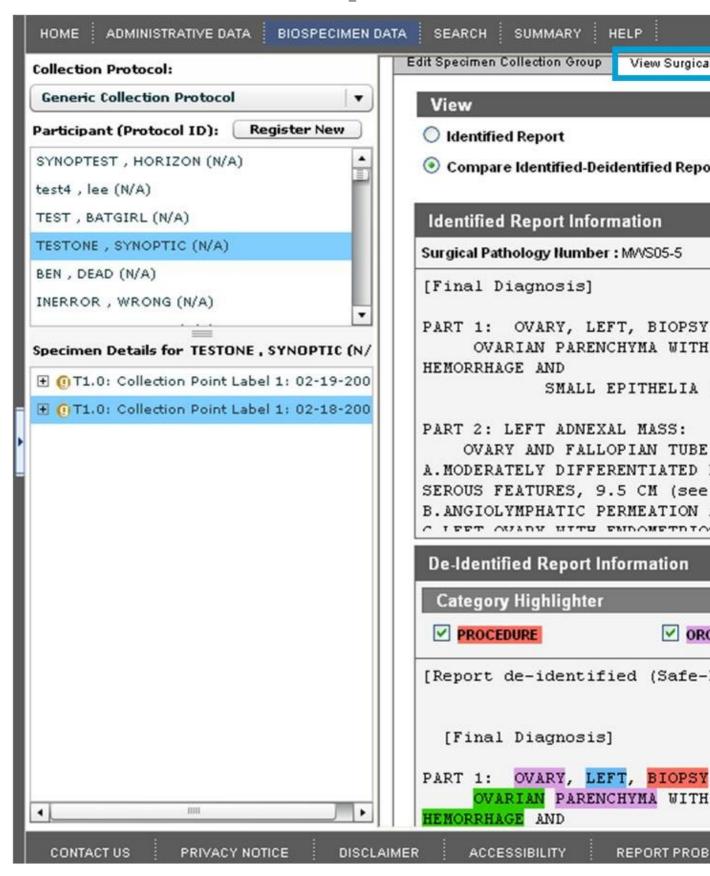


caTIES-Like Functionality

Loading Textual Pathology Reports



caTIES-Like Functionality? Viewing Pathology Reports



A Quick Review: Key Functions and Benefits of caTissue Suite

- **Search.** Allows biospecimen resource staff and scientists alike to search for biospecimens based on a combination of properties.
- **Biospecimen Tracking.** Allows biospecimen resource staff to record events related to biospecimen processing and quality assurance and to annotate biospecimens with pathological, clinical, and custom data.
- Biospecimen Resource Administration. Allows biospecimen resource staff to record data about biospecimen protocols, users, storage containers, requests, and distributions.

Resources and Next Steps

Steps Toward Adopting caTissue

- 1. Evaluate caTissue
- 2. Determine IT requirements and resources
- **3.** Initial caTissue configuration (setup)
- 4. User training

5. Lessons learned

Evaluate caTissue with Real Workflows

- Two options to evaluate
 - Use public demonstration site (http://catissuecore.wustl.edu/) to test workflows and data entry.
 - Install the application on test environment locally

• Advantages/goals

- Getting feedback in your specific environment.
- Understanding the impact or changes to workflow
- Address concerns ahead of deployment and identify any site specific customizations that are needed

Getting Started: A Glance at the Technology

• Tool Platform: Designed to be a centralized database and web page server (generally a single database per institution or biospecimen resource) that is accessible to end users through most standard web browsers.

CaTissue_PP1

• Key Prerequisites : Installation requires a database application (Oracle, MySQL), application server and moderate IT support for installation and maintenance.
• End User Readiness: End users interact through a simple web user interface, but will need to gain familiarity with the data terminology and workflow functionality.
IT Infrastructure / Internal Resources
 Have IT/biomedical informatics experts review caTissue hardware and software requirements Servers required for test and production environment and required configuration for each (storage space, firewalls, security policies etc?) Licensed vs. freeware software required Database backups/business data recovery strategies
caTissue Initial Setup- After Installation
• Tissue bank administrative data setup

• Setup users, storage containers, collection and distribution protocols

• Legacy data migration
• Data mapping between legacy system and caTissue data scheme
• Develop data import and test plan
• Note: A migration tool is available, developed using the caCore API exposed by caTissue
• Customizations
• Label/barcode generator and printing
User training
• Develop site specific user manuals or SOP?s as needed

User training 40

• Dedicate specific time to train the end users in their environment using their workflows

• Demonstrate production instance with migrated data prior to 'go live' date
Lessons Learned
 Based on the experience in helping different centers in adopting caTissue, below are some of the important points to be noted:

• Having dedicated servers for database and application helps to optimize performance

• Hands on training to the end users is very critical before the application goes to production

♦ Administrator should take care of security aspects such as deploying behind firewall, on https

• Deployment guide lists some of the common errors which are encountered, it is recommended

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that administrator should go through them before

deployment to avoid those errors

and so on

Lessons Learned

Adopting caTissue Suite: Release Timeline and Future Plans

Release Information

- caTissue Suite v1.0 April 2008.
- Not yet caGrid enabled

Development Schedule

- Currently a semi-annual iterative release cycle with on-going support and improvements based on end-user feedback.
- Future development iterations (Suite v1.1) will include integration with other caBIG tools and additional functionality based on end-user feedback.
 - Temporal Queries
 - Multiple Biospecimen Bank Representation
 - Improved Usability of Dynamic Extensions
 - Bug- Fixes

Support Available

• http://catissuecore.wustl.edu

The Next Step: Accessing Online Resources for caTissue Suite

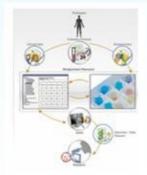
caTissue Core Online	http://catissuecore.wustl.edu
Tool Landing Page	https://cabig.nci.nih.gov/tools/catissuesuite
Access to Demo Passwords and Logins	http://catissuecore.wustl.edu
	Username: admin@admin.com Password: Login123

CaTissue_PP1

NCI Center for Bioinformatics Applications Support	ncicb@pop.nci.noh.gov
caTissue Production Sites	https://cabig.nci.nih.gov/workspaces/TBPT/biospecimen-data-directory/







Tissue/Biospecimen Banking And Technology Tools Knowledge Center

Thanks for Attending!

- We?d like to know what you think!
 - Did you get useful information from this presentation?
 - What additional information or future presentation topics would you like to see?
- Send your feedback to caBIGconnect@cancer.gov

Thanks for Attending! 43